IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application. Please amend claims 1, 6 and 8-10 as follows:

Listing of Claims

1.   (Currently Amended) A recording control apparatus for controlling recording of

first, second, and third data series onto an optical disk, the apparatus comprising:

first data extracting means for extracting video and audio data having a first data amount

for each frame from the first data series, the first data amount being a data amount in accordance

with a data amount required for reproduction of one frame of an image for a first reproduction

time;

second data extracting means for extracting [[data]] frame metadata having a second data

amount for each frame from the second data series, the second data amount being a data amount

in accordance with a data amount required for reproduction of the frame metadata for a second

reproduction time that is different from the first reproduction time;

first recording-control means for performing recording-control to record data having the

first data amount for the first data series and data having the second data amount for the second

data series onto the optical disk so that frame metadata for each frame is recorded near the video

and audio data recorded for each frame and the respective data are periodically arranged in a

circumferential direction of the optical disk in a form of annular rings respectively; and

second recording-control means for performing recording-control to record the third data

series onto the optical disk so that the third data series is arranged independently of the

periodically arranged first data series and the second data series, wherein the third data series is

separately recorded at an inner circumference side in a contiguous manner <u>and wherein the third</u>

<u>data series is clip metadata recorded for each clip</u>.

2.   (Previously Presented) The recording control apparatus according to claim 1,

wherein the first data amount is a data amount that is an integral multiple of a data amount in a

physical unit area of the optical disk and that is close to a data amount required for reproduction

for the first reproduction time, and

the second data amount is a data amount that is an integral multiple of a data amount in

the physical unit area of the optical disk and that is close to a data amount required for

reproduction for the second reproduction time.

3.   (Previously Presented) The recording control apparatus according to claim 2,

wherein, with respect to the optical disk, the physical unit area is a minimum area to/from which

data writing/reading is performed or an area in which an ECC (error correcting code) block on

which ECC processing is performed is recorded.

4.   (Previously Presented) The recording control apparatus according to claim 1,

wherein the first recording-control means causes the data having the first data amount for the

first data series and the data having the second data amount for the second data series to be

recorded onto the optical disk so that boundaries of the respective data match boundaries of

physical unit areas of the optical disk.

5.   (Previously Presented) The recording control apparatus according to claim 4,

wherein, with respect to the optical disk, the physical unit area is a minimum area to/from which data writing/reading is performed or an area in which an ECC (error correcting code) block on which ECC processing is performed is recorded.

6.   (Currently Amended) The recording control apparatus according to claim 1, wherein the first data series is a data series of video or a data series of audio associated with the video;

the second data series is a data series of the frame metadata that requires a real-time characteristic for the data series of video or the data series of audio associated with the video; and

the third data series is a data series of the clip metadata that does not require a real-time characteristic for the data series of video or the data series of audio associated with the video.

7.   (Previously Presented) The recording control apparatus according to claim 1, wherein, for each clip that constitutes material data in a predetermined area in the first data series, the third data series uses one file containing one of at least an LTC/UMID, GPS data, front-end time code, discontinuous-point time code information, a front-end extended UMID source pack, and a discontinuous-point extended UMID source pack.

8.   (Currently Amended) A recording control method for a recording control apparatus for controlling recording of first, second, and third data series onto an optical disk, the method comprising the steps of:

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a first data extracting step of extracting <u>video and audio</u> data having a first data amount <u>for each frame</u> from the first data series, the first data amount being a data amount in accordance with a data amount required for reproduction <u>of one frame of an image</u> for a first reproduction time;

a second data extracting step of extracting [[data]] <u>frame metadata</u> having a second data amount <u>for each frame</u> from the second data series, the second data amount being a data amount in accordance with a data amount required for reproduction <u>of the frame metadata</u> for a second reproduction time that is different from the first reproduction time;

a first recording-control step of performing recording-control to record data having the first data amount for the first data series and data having the second data amount for the second data series onto the optical disk so that <u>the frame metadata for each frame is recorded near the video and audio data recorded for each frame and</u> the respective data are periodically arranged in a circumferential direction of the optical disk in a form of annular rings respectively; and

a second recording-control step of performing recording-control to record the third data series onto the optical disk so that the third data series is arranged independently of the <u>periodically arranged</u> first data series and the second data series, wherein the third data series is separately recorded ~~at an inner circumference side~~ in a contiguous manner <u>and wherein the third data series is clip metadata recorded for each clip</u>.

9.   (Currently Amended) A <u>computer</u> program, encoded on a computer-readable medium, for causing a computer to perform recording-control processing for controlling recording of first, second, and third data series onto an optical disk, the <u>computer</u> program comprising the steps of:

a first data extracting step of extracting <u>video and audio</u> data having a first data amount <u>for each frame</u> from the first data series, the first data amount being a data amount in accordance with a data amount required for reproduction <u>of one frame of an image</u> for a first reproduction time;

a second data extracting step of extracting [[data]] <u>frame metadata</u> having a second data amount <u>for each frame</u> from the second data series, the second amount being a data amount in accordance with a data amount required for reproduction <u>of the frame metadata</u> for a second reproduction time that is different from the first reproduction time;

a first recording-control step of performing recording-control to record data having the first data amount for the first data series and data having the second data amount for the second data series onto the optical disk so that <u>the frame metadata for each frame is recorded near the video and audio data recorded for each frame and</u> the respective data are periodically arranged in a circumferential direction of the optical disk in a form of annular rings respectively; and

a second recording-control step of performing recording-control to record the third data series onto the optical disk so that the third data series is arranged independently of the <u>periodically arranged</u> first data series and the second data series, wherein the third data series is separately recorded ~~at an inner circumference side~~ in a contiguous manner <u>and wherein the third data series is clip metadata recorded for each clip</u>.

10.   (Currently Amended) A computer readable <u>storage</u> medium ~~storing~~ <u>encoded with</u> a computer program for recording first, second, and third data series onto an optical disk, said <u>computer</u> program comprising the steps of:

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(a) recording <u>video and audio</u> data which is extracted from the first data series and which has a first data amount <u>for each frame</u> that is a data amount in accordance with a data amount required for reproduction <u>of one frame of an image</u> for a first reproduction time; and

(b) recording [[data]] <u>frame metadata</u> which is extracted from the second data series and which has a second data amount <u>for each frame</u> that is a data amount in accordance with a data amount required for reproduction <u>of the frame metadata</u> for a second reproduction time that is different from the first reproduction time,

wherein <u>the frame metadata for each frame is recorded near the video and audio data recorded for each frame and</u> the data are recorded so that the respective data are periodically arranged in a circumferential direction of the optical disk in a form of annular rings respectively, and

arranging the third data series at random on the optical disk independently of the <u>periodically arranged</u> first data series and the second data series, wherein the third data series is separately recorded ~~at an inner circumference side~~ in a contiguous manner <u>and wherein the third data series is clip metadata recorded for each clip</u>.